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IN - JUNG Y J; SIM J H; CHUNG Y J; SHIM J H

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PN - KR362082 B 20021123 DW200334 D21H19/72 000pp

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AB - KR2001056213 NOVELTY - A process for preparing the titled paper by surface treatment of paper with chitosan-containing polyvinyl alcohol or a starch solution is provided. Whereby, the obtained paper has excellent physical properties, strength, dimensional stability and antimicrobial properties as compared to conventional paper treated with polyvinyl alcohol or starch alone.

- DETAILED DESCRIPTION - Paper is surface-treated with chitosan-containing polyvinyl alcohol or a starch solution or the surface treated paper is optionally treated with an aqueous solution containing 1 to 2% by weight of a boron aqueous solution or 1 to 2% by weight of boron and 2 to 20% by weight of glycerin to produce the titled paper. The chitosan-containing polyvinyl alcohol or a starch solution is prepared by mixing 0.1 to 5% by weight of a mixed solution of chitosan, water and 0.2 to 2% by weight of an aqueous solution of acetic acid with 2 to 5% by weight of an aqueous solution of polyvinyl alcohol or 2 to 30% by weight of a starch solution in a weight ratio of 1:99 to 50:50.

- (Dwg.0/0)

IW - PRODUCE PAPER STRENGTH DIMENSION STABILISED ANTIMICROBIAL PROPERTIES

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INW - JUNG Y J; SIM J H; CHUNG Y J; SHIM J H

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TI - Production of paper having excellent strength, dimension stability and antimicrobial properties